

## Volume 19 Author Index

Anderson, Cheryl—2:19-26  
 Bishop, Joseph M.—2:3-4  
 Boller, Jack—1:3-4  
 Bradley, David L.—2:5-11  
 Campbell, Joan E.—3:12-17  
 Carnahan, T.G.—4:62-64  
 Chung, Jin S.—4:39-44  
 Clites, Anne H.—3:12-17  
 Cohen, Robert—2:27-33  
 Cruickshank, Michael—4:3-5  
 Dendrou, Stergios A.—2:42-50  
 Devonald, Kim—3:26-29  
 Dooley, Austin L.—2:51-55  
 Earle, Marshall D.—2:12-18  
 Glucksman, Maurice A.—3:3-11  
 Graffman, John—1:32-37  
 Hyacinthe, Jean-Louis—1:13-19  
 Jeffrey, N.E.—1:5-9  
 Johnson, Donald R.—2:34-41  
 Kaufman, R.—4:50-56  
 Kriezis, George A.—3:46-56  
 LaBelle, Robert—2:19-26  
 Leming, Thomas D.—2:34-41  
 Lennard, Don E.—1:38-45  
 Lonardi, Alberto—1:53-56  
 Marcus, Henry S.—3:3-11  
 McClain, C. Joyce—3:57  
 McCormick, Michael E.—2:27-33  
 McCormick, Michael J.—3:12-17  
 McKelvey, V.E.—4:65-67  
 McMurray, Gregory—4:57-61  
 Moore, Charles I.—2:42-50  
 Myers, Vance A.—2:42-50  
 Neuman, Lawrence—1:46-52  
 Padan, John—4:31-38  
 Pasho, David W.—4:26-30  
 Paul, Robert G.—4:45-49  
 Rona, Peter A.—4:18-25  
 Rowland, T. John—4:6-17  
 Saeki, Muneharu—1:20-24  
 Siapno, Bill—4:3-5  
 Stoddard, Andrew—3:26-39  
 Trefts, Deborah C.—3:57  
 Vadus, Joseph R.—1:3-4  
 Van Oortmerssen, Gerard—1:25-31  
 Wargelin, Richard M.—3:18-25  
 Wells, Deborah K.—3:18-25  
 Wells, Roger—3:26-39  
 Winokur, Robert S.—2:5-11  
 Yazdandoust, Mohammed H.—3:41-45  
 Yikang, Wu—1:10-12

## Volume 19 Subject Index

### ACOUSTICS

An Application of New Dual-Beam Technology for Hydroacoustic Investigations in Fisheries (Abstract), C. Joyce McClain (3):57

### APPLIED OCEANOGRAPHY

#### Coastal Oceanography

Application of Storm Surge Modeling to Coastal Flood Rate Determination, Stergios A. Dendrou et al. (2): 42-50

#### General

Applied Oceanography - An Introduction, Joseph M. Bishop (2): 3-4

#### Naval Oceanography

Naval Applications of Oceanography, Robert S. Winokur and David L. Bradley (2):5-11  
 Programs and Projects of the Naval Oceanographic Office, Deborah K. Wells and Richard M. Wargelin (3):18-25

### Transportation

Applied Oceanography and Ship Ocean Routing, Austin L. Dooley (2):51-55  
 Application of Storm Surge Modeling to Coastal Flood Rate Determination, Stergios A. Dendrou et al. (2):42-50

### Waste Disposal

Development and Application of a Deepwater Ocean Waste Disposal Model For Dredged Material: Yabucoa Harbor, Puerto Rico, Andrew Stoddard et al. (3):26-39

### BIOLOGICAL RESEARCH

Application of Circulation Models to Larval Dispersment and Recruitment, Thomas D. Leming and Donald R. Johnson (2):34-41  
 Bioaccumulation of Paralytic Shellfish Poisons in Cancer Crab Larvae Fed on the Toxic Dinoflagellate *Gonyaulax Catanella*, Mohammed H. Yazdandoust (3):41-45

### BUOY TECHNOLOGY

Water Tracking Ability of Satellite-Tracked Drifters In Light Winds, Michael J. McCormick et al. (3):12-17

### ENGINEERING DESIGN

Computer-Aided Preliminary Design Of An Exploration Marine Riser, George A. Kriezis (3):46-56

### ENVIRONMENTAL IMPACTS

The Application of Oceanography to Oil Modeling For the Outer Continental Shelf Oil and Gas

## Volume 19 Author Index

Anderson, Cheryl—2:19-26  
 Bishop, Joseph M.—2:3-4  
 Boller, Jack—1:3-4  
 Bradley, David L.—2:5-11  
 Campbell, Joan E.—3:12-17  
 Carnahan, T.G.—4:62-64  
 Chung, Jin S.—4:39-44  
 Clites, Anne H.—3:12-17  
 Cohen, Robert—2:27-33  
 Cruickshank, Michael—4:3-5  
 Dendrou, Stergios A.—2:42-50  
 Devonald, Kim—3:26-29  
 Dooley, Austin L.—2:51-55  
 Earle, Marshall D.—2:12-18  
 Glucksman, Maurice A.—3:3-11  
 Graffman, John—1:32-37  
 Hyacinthe, Jean-Louis—1:13-19  
 Jeffrey, N.E.—1:5-9  
 Johnson, Donald R.—2:34-41  
 Kaufman, R.—4:50-56  
 Kriezis, George A.—3:46-56  
 LaBelle, Robert—2:19-26  
 Leming, Thomas D.—2:34-41  
 Lennard, Don E.—1:38-45  
 Lonardi, Alberto—1:53-56  
 Marcus, Henry S.—3:3-11  
 McClain, C. Joyce—3:57  
 McCormick, Michael E.—2:27-33  
 McCormick, Michael J.—3:12-17  
 McKelvey, V.E.—4:65-67  
 McMurray, Gregory—4:57-61  
 Moore, Charles I.—2:42-50  
 Myers, Vance A.—2:42-50  
 Neuman, Lawrence—1:46-52  
 Padan, John—4:31-38  
 Pasho, David W.—4:26-30  
 Paul, Robert G.—4:45-49  
 Rona, Peter A.—4:18-25  
 Rowland, T. John—4:6-17  
 Saeki, Muneharu—1:20-24  
 Siapno, Bill—4:3-5  
 Stoddard, Andrew—3:26-39  
 Trefts, Deborah C.—3:57  
 Vadus, Joseph R.—1:3-4  
 Van Oortmerssen, Gerard—1:25-31  
 Wargelin, Richard M.—3:18-25  
 Wells, Deborah K.—3:18-25  
 Wells, Roger—3:26-39  
 Winokur, Robert S.—2:5-11  
 Yazdandoust, Mohammed H.—3:41-45  
 Yikang, Wu—1:10-12

## Volume 19 Subject Index

### ACOUSTICS

An Application of New Dual-Beam Technology for Hydroacoustic Investigations in Fisheries (Abstract), C. Joyce McClain (3):57

### APPLIED OCEANOGRAPHY

#### Coastal Oceanography

Application of Storm Surge Modeling to Coastal Flood Rate Determination, Stergios A. Dendrou et al. (2): 42-50

#### General

Applied Oceanography - An Introduction, Joseph M. Bishop (2): 3-4

#### Naval Oceanography

Naval Applications of Oceanography, Robert S. Winokur and David L. Bradley (2):5-11  
 Programs and Projects of the Naval Oceanographic Office, Deborah K. Wells and Richard M. Wargelin (3):18-25

### Transportation

Applied Oceanography and Ship Ocean Routing, Austin L. Dooley (2):51-55  
 Application of Storm Surge Modeling to Coastal Flood Rate Determination, Stergios A. Dendrou et al. (2):42-50

### Waste Disposal

Development and Application of a Deepwater Ocean Waste Disposal Model For Dredged Material: Yabucoa Harbor, Puerto Rico, Andrew Stoddard et al. (3):26-39

### BIOLOGICAL RESEARCH

Application of Circulation Models to Larval Dispersment and Recruitment, Thomas D. Leming and Donald R. Johnson (2):34-41  
 Bioaccumulation of Paralytic Shellfish Poisons in Cancer Crab Larvae Fed on the Toxic Dinoflagellate *Gonyaulax Catanella*, Mohammed H. Yazdandoust (3):41-45

### BUOY TECHNOLOGY

Water Tracking Ability of Satellite-Tracked Drifters In Light Winds, Michael J. McCormick et al. (3):12-17

### ENGINEERING DESIGN

Computer-Aided Preliminary Design Of An Exploration Marine Riser, George A. Kriezis (3):46-56

### ENVIRONMENTAL IMPACTS

The Application of Oceanography to Oil Modeling For the Outer Continental Shelf Oil and Gas

Leasing Program, Robert LaBelle and Cheryl Anderson (2):19-26

The Application of Physical Oceanography to the Offshore Oil and Gas Industry, Marshall D. Earle (2):12-18

Development and Application of a Deepwater Ocean Waste Disposal Model for Dredged Material: Yabucoa Harbor, Puerto Rico, Andrew Stoddard et al. (3):26-39

Environmental Aspects of Leasing For Metalliferous Sulfides In the Gorda Ridge Area, Gregory McMurray (4):57-61

## **FISHERIES**

An Application of New Dual-Beam Technology for Hydroacoustic Investigations in Fisheries (Abstract), C. Joyce McClain (3):57

Application of Circulation Models to Larval Dispersment and Recruitment, Thomas D. Leming and Donald R. Johnson (2):34-41

## **INTERNATIONAL PROGRAMS & DEVELOPMENTS**

Canada and Ocean Mining, David W. Pasho (4):26-30

A Few Current Marine Technology Developments in Sweden, John Graffman (1):32-37

International Programs and Developments in Marine Technology—An Introduction, Joseph R. Vadus and Jack Boller (1):3-4

Ocean Technology in China, Wu Yikang (1):10-12

Recent Advances in French Marine Technology, Jean-Louis Hyacinthe (1):13-19

Recent Advances in Marine Technology in Canada, N.E. Jeffrey (1):5-9

Recent Advances in Marine Technology in the Netherlands, Gerard Van Oortmerssen (1):25-31

Strategies For Development: A Multinational Marine Sciences and Marine Resources Program for the Americas, Alberto Lonardi (1):53-56

The United Kingdom's Progress in Marine Technology, Don E. Lennard (1):38-45

The United Nations and the Seas: The UNEP Regional Seas Program, Lawrence Neuman (1):46-52

## **MARINE MINERALS**

### **General**

Canada and Ocean Mining, David W. Pasho (4):26-30

Marine Minerals—An Update and Introduction, Guest Editors Michael Cruickshank and William Siapno (4):3-5

Non-Energy Marine Mineral Resources of the World's Oceans, T. John Rowland (4):6-17

### **Manganese Crusts**

Development of Metalliferous Oxides from Cobalt-Rich Manganese Crusts, Robert G. Paul (4):45-49

## **Manganese Nodules**

Development of Metalliferous Oxides (Manganese Nodules), John Padan (4):31-38

Technologies in Ocean Mining Systems, Jin S. Chung (4):39-44

## **Metalliferous Sulfides**

Conceptual Approaches to Mining Marine Polymetallic Sulfide Deposits, Raymond Kaufman (4):50-56

Environmental Aspects of Leasing for Metalliferous Sulfides in the Gorda Ridge Area, Gregory McMurray (4):57-61

Potential Mineral and Energy Resources at Submerged Plate Boundaries, Peter A. Rona (4):18-25

Treatment of Metalliferous Sulfides for Market, Thomas G. Carnahan (4):62-64

## **Mining Technology**

Conceptual Approaches to Mining Marine Polymetallic Sulfide Deposits, Raymond Kaufman (4):50-56

Technologies in Ocean Mining Systems, Jin S. Chung (4):39-44

## **Phosphates**

The U.S. Phosphate Industry: Revised Prospects and Potential, Vince McKelvey (4):65-67

## **Processing**

Treatment of Metalliferous Sulfides for Market, Thomas G. Carnahan (4):62-64

## **MARINE POLICY**

### **Non-United States**

Canada and Ocean Mining, David W. Pasho (4):26-30

A Few Current Marine Technology Developments in Sweden, John Graffman (1):32-37

International Programs and Developments in Marine Technology—An Introduction, Joseph R. Vadus and Jack Boller (1):3-4

Ocean Technology in China, Wu Yikang (1):10-12

Recent Advances in French Marine Technology, Jean-Louis Hyacinthe (1):13-19

Recent Advances in Marine Technology in Canada, N.E. Jeffrey (1):5-9

Recent Advances in Marine Technology in the Netherlands, Gerard Van Oortmerssen (1):25-31

Strategies For Development: A Multinational Marine Sciences and Marine Resources Program for the Americas, Alberto Lonardi (1):53-56

The United Kingdom's Progress in Marine Technology, Don E. Lennard (1):38-45

The United Nations and the Seas: The UNEP Regional Seas Program, Lawrence Neuman (1):46-52



## United States

Maintaining the U.S. Shipyard Mobilization Base: A Computer Model for Conflict Resolution, Henry S. Marcus and Maurice A. Glucksman (3):3-11

Marine Minerals—An Update and Introduction, Guest Editors Michael Cruickshank and William Siapno (4):3-5

U.S. Regulation of Prospective Nontraditional offshore Activities, (Abstract), Deborah C. Trefts (3):57

## MODELING

Application of Circulation Models to Larval Dispersment and Recruitment, Thomas D. Leming and Donald R. Johnson (2):34-41

The Application of Oceanography to Oil Spill Modeling for the Outer Continental Shelf Oil and Gas Leasing Program, Robert LaBelle and Cheryl Anderson (2):19-26

The Application of Storm Surge Modeling to Coastal Flood Rate Determinations, Stergios A. Dendrou et al. (2):42-50

Development and Application of a Deepwater Ocean Waste Disposal Model for Dredged Material: Yabucoa Harbor, Puerto Rico, Andrew Stoddard et al. (3):26-39

Maintaining the U.S. Shipyard Mobilization Base: A Computer Model for Conflict Resolution, Henry S. Marcus and Maurice A. Glucksman (3):3-11

## NAVAL OCEANOGRAPHY

Naval Applications of Oceanography, Robert S. Winokur and David L. Bradley (2):5-11

Programs and Products of the Naval Oceanographic Office, Deborah K. Wells and Richard M. Wargelin (3):18-25

## OCEAN ENERGY

Oceanography Applied to Renewable Ocean Energy Sources, Michael E. McCormick and Robert Cohen (2):27-33

## OFFSHORE OIL & GAS

The Application of Oceanography to Oil Spill Modeling for the Outer Continental Shelf Oil and Gas Leasing Program, Robert LaBelle and Cheryl Anderson (2):19-26

The Application of Physical Oceanography to the Offshore Oil and Gas Industry, Marshall D. Earle (2):12-18

Computer-Aided Preliminary Design of an Exploration Marine Riser, George A. Kriezis (3):46-56

## OFFSHORE STRUCTURES

The Application of Oceanography to Oil Spill Modeling for the Outer Continental Shelf Oil

and Gas Leasing Program, Robert LaBelle and Cheryl Anderson (2):19-26

The Application of Physical Oceanography to the Offshore Oil and Gas Industry, Marshall D. Earle (2):12-18

## RESOURCE ASSESSMENT

Marine Minerals—An Update and Introduction, Guest Editors Michael Cruickshank and William Siapno (4):3-5

Non-Energy Marine Mineral Resources of the World's Oceans, T. John Rowland (4):6-17

Potential Mineral and Energy Resources at Submerged Plate Boundaries, Peter A. Rona (4):18-25

The U.S. Phosphate Industry: Revised Prospects and Potential, Vince McKelvey (4):65-67

## SATELLITE APPLICATIONS

Water-Tracking Ability of Satellite-Tracked Drifters in Light Winds, Michael J. McCormick et al. (3):12-17

## SHIPBUILDING

Maintaining the U.S. Shipyard Mobilization Base: A Computer Model for Conflict Resolution, Henry S. Marcus and Maurice A. Glucksman (3):3-11

## STUDENT PAPERS (CHAPMAN-SCHAEFER AWARD)

An Application of New Dual-Beam Technology for Hydroacoustic Investigations in Fisheries, (Abstract), C. Joyce McClain (3):57

Bioaccumulation of Paralytic Shellfish Poisons in Cancer Crab Larvae Fed on the Toxic Dinoflagellate *Gonyaulax catanella*, Mohammed H. Yazdandoust (3):41-45

Computer-Aided Preliminary Design of an Exploration Marine Riser, George A. Kriezis (3):46-56

U.S. Regulation of Prospective Nontraditional Offshore Activities (Abstract), Deborah C. Trefts (3):57

## TRANSPORTATION

Application of Storm Surge Modeling to Coastal Flood Rate Determinations, Stergios A. Dendrou et al. (2):42-50

Applied Oceanography and Ship Ocean Routing, Austin L. Dooley (2):51-55

## WASTE DISPOSAL

Development and Application of a Deepwater Ocean Waste Disposal Model for Dredged Material: Yabucoa Harbor, Puerto Rico, Andrew Stoddard et al. (3):26-39

